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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,753	05/19/2005	Peter J Slikkerveer	NL02 1164 US	9182
24738 7590 12/28/2007 PHILIPS ELECTRONICS NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS 370 W. TRIMBLE ROAD MS 91/MG SAN JOSE, CA 95131			EXAMINER NGUYEN, LAUREN	
			ART UNIT 2871	PAPER NUMBER
			MAIL DATE 12/28/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/535,753	Applicant(s) SLIKKERVEER ET AL.	
	Examiner Lauren Nguyen	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-32 is/are pending in the application.
- 4a) Of the above claim(s) 3,4 and 8-17 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5-7 and 18-32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>11/27/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Receipt is acknowledged of applicant's amendment filed on 11/28/2007.

Claims 3-4 and 8-17 were canceled and claims 25-32 were added. Thus, claims 1-2, 5-7 and 18-32 are pending for examination.

Response to Arguments

1. Applicant's arguments with respect to **claims 1-2, 5-7 and 18-32** have been considered but are moot in view of the new ground(s) of rejection.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted was filed after the mailing date of the instant application on 11/27/2007. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 26, 28, and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claimed limitation recites "a varying thickness" of the additional film is unclear. Any sheet/layer/device has a varying thickness. Therefore, the scope of the claim has not been defined.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. **Claims 1-2, 5-7, 18-20, 22-25, 28, 30** are rejected under 35 U.S.C. 102(b) as being anticipated by **Masahide et al. (JP 2002-014359)**.

7. With respect to **claim 1, Masahide** (figures 11-12) discloses a method of manufacturing a curved flat panel display device, comprising the act of providing two films including a first non-precurved film and a second non-precurved film (P1 and P2); bending the second non-precurved film to form a curved surface (P2); adhering the non-precurved first film to the curved surface (P1), in such a way that the two films are held in a curved shape by means of the adhering act between the two films (N).

8. With respect to **claim 2, Masahide** (figures 11-12) discloses one of said two films is a display layer exhibiting display functionality (P1 or P2, see at least paragraph 0180) and another of said two films is an additional film.

9. With respect to **claim 5, Masahide** (figures 11-12) discloses the act of bending comprises the act of applying a bending force to the second non-precurved film for bending to a bent position (P1, figure 12), and the act of adhering includes bending the non-precured first film to the bent position for adhesion to the curved surface (see at least paragraph 0192).

10. With respect to **claim 6, Masahide** (figures 11-12) discloses said additional film is arranged to be adhered to one of an intended I inner or outer side of the curved flat panel display (P1, P2, figure 12).

11. With respect to **claim 7, Masahide** (figures 11-12) discloses said adhering of the additional film to the display film is done by means of laminating (see at least paragraph 0192).

12. With respect to **claim 18, Masahide** (figures 11-12) discloses a method of manufacturing a curved flat panel display device, comprising the step of: providing a first film (P1), applying a force to the first film to achieve a curvature (figure 12), and adhering a second film (P2) to the surface of the first film (see at least paragraph 0192), the second film and adhesion between the first and second films restraining all or part of said force, whereby a desired curvature of the curved flat panel display device is maintained by the adhering step.

13. With respect to **claim 19, Masahide** (figures 11-12) discloses one of the first and second films is a display layer exhibiting display functionality, and another of the first and second films is an additional film (P1 or P2).

14. With respect to **claim 20, Masahide** (figures 11-12) discloses the first film is the additional film and the step of applying a force comprises pre-tensioning the additional film before the additional film is adhered to a surface of the display layer (P1 and P2, figure 12).

15. With respect to **claim 22, Masahide** (figures 11-12) discloses the step of applying a force comprises the step of applying a binding force to bend to second film to a position for the adhering step to adhere the second film to the surface of the first film (see at least paragraph 0193).

16. With respect to **claim 23, Masahide** (figures 11-12) discloses the additional film is arranged to be adhered to one of an intended inner or outer side of the curvature of the curved flat panel display device (P1 and P2, figure 12).

17. With respect to **claim 24, Masahide** (figures 11-12) discloses said adhering of the additional film to the display film is done by means of laminating (N, see at least paragraph 0192).

18. With respect to **claim 25, Masahide** (figures 11-12) discloses said additional film is arranged substantially along an edge of the display layer (P1 and P2, figure 12).

19. With respect to **claim 28, Masahide** (figures 11-12) discloses method of manufacturing a curved flat panel display device, comprising the act of providing two films including a first non-precurved film and a second non-precurved film (P1 and P2); pre-tensioning the first non-precurved film to form a stretched film (P1); adhering together the stretched film and the second non-precurved film so that the two films are held in a curved shape by the adhering act (N, see at least paragraph 0192).

20. With respect to **claim 30, Masahide** (figures 11-12) discloses the stretched film is arranged substantially along an edge of non-precurved second film (P1 and P2, figure 12).

Claim Rejections - 35 USC § 103

21. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

22. **Claims 21 and 29** are ejected under 35 U.S.C. 103(a) as being unpatentable over **Masahide et al.** in view of **Yamamoto et al. (US 4,592,623)**.

With respect to **claims 21 and 29, Masahide et al.** discloses the limitations as shown in the rejection of **claims 20 and 28** above. However, **Masahide et al.** fails to teach the limitations of **claims 21 and 29**. **Yamamoto et al.** (in at least column 5, lines 31-34) teaches the step of pre-tensioning said additional film comprises the step of uni-axially stretching said additional film, during the adhering process (**claim 21**) and the act of pre-tensioning the non-precurved first film comprises the act of uni-axially stretching the non-precurved first film (**claim 29**). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify

the method of manufacturing a curve flat panel display device of **Masahide et al.** with the uniaxially stretch method of **Yamamoto et al.** because such modification would impart the corrosion resistance against chemicals to the films.

23. **Claims 26-27 and 31-32** are ejected under 35 U.S.C. 103(a) as being unpatentable over **Masahide et al.** in view of **Wang et al.** (US 6,859,251).

24. With respect to **claims 26-27 and 32**, **Masahide et al.** discloses the limitations as shown in the rejection of **claims 25, 2, and 28** above. However, **Masahide et al.** fails to teach the limitations of **claims 26-27 and 32**. **Wang et al.** (in at least figures 1-2; column 2, lines 1-6) teaches the additional film (100b, 110b) has a varying thickness (**claim 26**); a thickness of said additional film (100b, 110b) is selected to shift a plane of substantially zero tensile or compressive stress of the curved flat panel display device upon bending of the curved flat panel display device to a desired plane (**claim 27**); a thickness of the first non-precurved film (100b, 110b) is selected to shift a plane of substantially zero tensile or compressive stress of the curved flat panel display device upon bending of the curved flat panel display device to a desired plane (**claim 32**).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of manufacturing a curve flat panel display device of **Masahide et al.** with the teachings of **Wang et al.** because such modification would prevent the wide-area pixel defect.

25. With respect to **claim 31**, **Masahide et al.** (figures 11-12) discloses the stretched film is adhered to an edge of the non-precurved second film (P1, P2). However, **Masahide et al.** fails to teach the stretched film having a varying thickness. **Wang et al.** (in at least figures 1-2; column 2, lines 1-6) teaches the stretched film having a varying thickness (100b, 110b). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the

method of manufacturing a curve flat panel display device of **Masahide et al.** with the teachings of **Wang et al.** because such modification would prevent the wide-area pixel defect.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lauren Nguyen whose telephone number is (571) 270-1428. The examiner can normally be reached on M-F, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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Lauren Nguyen

December 20, 2007

A. L. Schuber
ADMINISTRATIVE/EXAMINER